**Call for Expression of Interest (EOI) to Participate in Proposal Submissions of Solar Photovoltaic (PV) Systems with Battery Storage in Three (3) Public Schools in Lebanon**

Energy Smart Mediterranean Schools Networks Project

ESMES (A\_B.4.3-0123)

Financed in the framework of the ENI CBC Mediterranean Sea Basin Programme 2014-2020

28 November 2021

Prepared by the Lebanese Center for Energy Conservation (LCEC)

Beirut, Lebanon

### Overview

1. The objective of this Expression of Interest (EOI) is for the Lebanese Center for Energy Conservation (LCEC) to receive interest from Lebanese solar photovoltaic (PV) companies in potentially procuring roof-mounted on-grid solar PV systems with lithium battery storage in three (3) public schools in Lebanon: Majadel, Al Barouk, and Bir Hassan Vocational and Technical Education Complex.
2. The solar PV systems (3-phase) with lithium battery storage should be capable of interacting with the national grid through the net-metering mechanism.
3. The PV panels mounting structures should either be of foundation-mount or ballasted-mount types, designed in line with NL 137:2020.
4. Only aluminum or hot-dip galvanized steel structures are accepted.
5. In Majadel, the minimum power capacity of the solar PV system should be 12 kWp and the minimum battery storage capacity should be 30 kWh.
6. In Al Barouk, the minimum power capacity of the solar PV system should be 12 kWp and the minimum battery storage capacity should be 20 kWh.
7. More details regarding the minimum design requirements in Bir Hassan will be shared in the Request for Proposals (RFP).
8. The deadline for submission of the EOI is on Friday December 17th, 2021 at 12:00 noon.
9. It should be noted that the interested parties will, in due time, respond to a formal RFP whereby the selected contractor will design, supply, build, and commission the three (3) solar PV systems with batteries.
10. More information about the minimum design requirements will be provided in the RFP, to be issued on 14 January 2022.
11. Please make sure that the proposed products are compliant with [decree 6997 on mandatory solar standards](https://www.lcec.org.lb/sites/default/files/2021-10/%D9%85%D8%B1%D8%B3%D9%88%D9%85%20%D8%B1%D9%82%D9%85%206997.pdf) and [EDL requirements for net-metering](http://edlnetmetering.com/en/application).
12. This proposed initiative will eventually contribute in responding to the current power sector challenges specifically in public schools, through the adoption of clean and renewable energy.
13. This project is implemented under the Energy Smart Mediterranean Schools Network project (ESMES), which is part of the ENI CBC Med Programme and focuses on the optimization of energy consumption in public schools through innovative, monitoring-based renewable energy and energy efficiency (REEE) pilot actions.
14. The funding of the three (3) solar PV systems with lithium battery storage is available through ESMES project in fresh euros.

### Background Information

About ENI CBC Med Programme

1. ENI CBC Med is the largest Cross-Border Cooperation (CBC) initiative implemented by the European Union (EU) under the European Neighbourhood Instrument (ENI). Through calls for proposals, ENI CBC Med finances cooperation projects for a more competitive, innovative, inclusive and sustainable Mediterranean area.
2. The Programme has a budget of € 209 million for the 2014-2020 period and the Managing Authority (MA) is the Autonomous Region of Sardinia in Italy.
3. Some of the main challenges addressed by projects selected for funding in the framework of the programme are the creation of innovative start-ups, the development of Mediterranean-wide economic value chains, the diversification of tourism, technological transfer, the inclusion of women in the labour market, better management of waste, water and coastal areas, and the improvement of energy efficiency in public buildings.
4. For more information, please refer to the following website: <http://www.enicbcmed.eu/about-us/the-programme-at-a-glance>

About ESMES

1. Buildings have high energy consumption causing considerable CO2 emissions and high economic costs. This is why the intervention in public schools is critical, being a relevant part of buildings stock with a low/often unknown energy performance.
2. The Energy Smart Mediterranean Schools Network project (ESMES), is part of the ENI CBC Med Programme and focuses on the optimization of energy consumption in public schools through innovative, monitoring-based renewable energy and energy efficiency (REEE) pilot actions.
3. ESMES is being implemented in five (5) Mediterranean countries and it involves six (6) organizations: The Institute for University Cooperation (ICU) being the Lead Beneficiary, the Lebanese Center for Energy Conservation (LCEC) being the Project Partner in Lebanon, the German Jordanian University in Jordan, the National Agency for Energy Management of Tunisia, the Ribera Consortium of Valencia in Spain, and the Alcamo Municipality in Italy.
4. ESMES is expected to contribute to environmental protection, climate change adaptation and mitigation, by adopting the below specific objectives:
5. Increase civil society awareness and improve energy habits through the cross-border engagement of students in a sustainable use of energy resources in Jordan, Tunisia, Lebanon, Italy and Spain.
6. Reduce the energy consumption in public school buildings in the five (5) mentioned countries, through the introduction of cost-effective REEE solutions tailored to buildings energy loads, type and use, and climatic zone.
7. Enhance capacities of national, regional and local institutions to plan and realize improved energy rehabilitations for higher energy sustainability of public buildings through cross-border cooperation.
8. ESMES will be implemented over a duration of three years starting September 2019.
9. For more information about the project, please visit the following website: <https://lcec.org.lb/our-work/partners/ESMES>

### Submission of Expression of Interest

1. Interested bidders shall complete and sign the application form provided in Annex A.
2. Once completed, the application should be signed and sent by email to [esmes.bids@lcec.org.lb](mailto:esmes.bids@lcec.org.lb)
3. If you have any questions, please do not hesitate to reach out to ESMES team on the same email.

### Annex A

|  |  |  |
| --- | --- | --- |
| **Ref.** | **Subject** | **Bidder’s Input** |
| **General Information** | | |
| 1 | Company Name |  |
| 2 | Country |  |
| 3 | Full Address |  |
| 4 | Phone Numbers |  |
| 5 | Official emal Address |  |
| **Contact Information** | | |
| 6 | Official Representative Name |  |
| 7 | Official Representative Mobile |  |
| 8 | Company Profile |  |
| 9 | Company Profile (add attachments if needed) |  |
| 10 | Average Company Turnover for the years 2018, 2019, 2020 (LBP) |  |
| **Experience in Solar PV** | | |
| 11 | Number of Commissioned On-Grid solar PV Systems in Lebanon (without Storage) |  |
| 12 | Total Capacity of Commissioned On-Grid solar PV Systems in Lebanon (without Storage) |  |
| 13 | Number of Commissioned solar PV Systems with Battery Storage in Lebanon |  |
| 14 | Total Capacity of Commissioned solar PV Systems with Battery Storage in Lebanon (kWp) |  |
| 15 | Total Capacity of Commissioned solar PV Systems with Battery Storage in Lebanon (kWh of storage) |  |
| 16 | Number of Commissioned solar PV Systems with **Lithium** Battery Storage in Lebanon |  |
| 17 | Total Capacity of Commissioned solar PV Systems with **Lithium** Battery Storage in Lebanon (kWh of storage) |  |
| **Proposed Products Description**  \*Add additional row as deemed necessary | | |
| 18 | Mounting Structure (please attach datasheet) |  |
| 19 | PV Panels (please attach datasheet) |  |
| 20 | Inverter (s)/charge controller (please attach datasheets) |  |
| 21 | Battery (please attach datasheet) |  |
| 22 | Protection Devices (please attach datasheets and typical SLD) |  |
| **Application Declaration** | | |
| I confirm that the information given on this form is accurate and agree to receive follow up communications in relation to this course. | | |
| Name:  Date: Signature: | | |

\*\*Note: LCEC reserves the right to request additional information to be added to the list.